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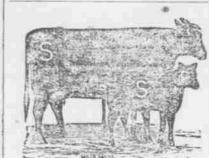
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The San Francisco Wickly Alta will ums are offered to yearly subscribers. THE WEESLY ALTA, .

Indian Depredations.

All persons who have claims against the Government for bases sustained through In-dian depredations in Arizona and New Mexico, will find it to their interest to communi-cate immediately with the undersigned in re-gard to the same, if they desire to take a dvan aburse all parties who have suffere men. WM. O. O'NEHLL.

Facts About Copper.

[From the Globs-Democrat.] gan. About 1100 men are employed Arizona. The third class of ores under ground in this mine. The total known as the sulphurets are very force is 2600 men. There are thirty- widely distributed, being found in the eight levels which enter to a depth of Rocky Mountains, spreading over the over 2000 feet. The lodes of copper northwest portion of the States, and vary in width from 6 to 18 feet. In being found as far south as New Mex-1886, 568,552 tons of ore were treated, Ico. In this form of ore the copper is yielding nearly 27,000 tons of pure combined with sulphur and iron, and entire production of the country. The is generally first roasted in the open capital invested in the mine is \$2,500,- air to drive off some of the sulphur, 000, on which a dividend of \$1,000,000 and consequently increases the perwas paid last year, making the total centage of copper. It is then put into amount paid to share holders since the far reverberatory furnace with silica. mine opened, in 1867, \$30,050,000. The iron unites with the silica and Last July the timber which supports from a fusible slag, the sulpur is the passages in the mine, caught fire driven off as sulphurous acid by the near the first shaft. In spite of the heat and the copper is left behind. efforts made to keep it under, the fire This process is repeated as often as spread to a disused portion of the necessary until copper of sufficient mine, where old tim er and lumber purity is obtained. had been thrown. After burning for The relatively cheap price of copper months, an effort was made to descend in recent years has led to a great ininto the mine on November 20th of crease of its use in the arts. Being this year. On descending the second only exceeded by silver as an electrishaft, the explorers found that the fire | cal conductor, it has been largely used had broken out in a gart of the mine for conveying that fluid. The great which had not been previously burn- development of electrical lighting, teling. Since then strennous efforts have ephones and other applications of elecbeen made to extinguish the tire with- tricity have been in part due to the out flooding the mine. By acting on price of copper not being prohibitive limestone, immense quantities of car- to its extensive use. In the form of bonic acid gas were produced and brass there has also been a great exdriven through the mine for the pur- tension of its use, where it can be conpose of depriving the timber of oxy- veniently substituted for iron. The gen, without which nothing can burn. rage for brass ornaments in the Queen The last fire in the Calumct and Anne style has also provided a great Hecla came in the nick of time to help outlet for it. The discovery that an

the French syndicate in its scheme in alloy of copper with 10 per cent of cornering copper. The Rie Tinto aluminum forms a compound of great mines, in Spain, have long played an hardness and toughness has led some important part in the copper markets eminent scientists to believe that it of the world. Many of its shares are may agein be used in making cannons; owned by the French people. In the an altoy of phosphorus and copper early part of this year the price of possesses similar qualities. But as copper fell to the lowest point that it civilization advances a wider field for has ever reached-9.9; in New York the employment of metals is always for Lake copper and £39 a ton for appearing, and from its ductility, its Chili bars in London. The shares of conductivity for heat and electricity, the Rio Tinto- mines have declined the readiness with which it enters two-thirds since 1883. The efforts of into alloys with other metals, copper the French syndicate have proved seems always sure of a foremost place highly successful. The price of cop- for employment in the arts. per has stendily risen in London to £80 10s per ton, and the French people disposed of their shares before they seached the lowest point. The outlook of the Calumet and Heela fire but with the aid of new machinery the Butte mines, in Montana, expect to soon to be able to put 200 tons of The copper a day on the market, which

must bring about a reaction. In 1845 100 tens of copper were produced in the United States. What is known as the Lake Superior district contilletted twelve of these tons. In 1867, the year the Calumet and Heela mine was opened, the production of copper in this country had increased to 10,000 tons. In 1886 the total output of copper had swollen to 67,000 tons, and the United States had gone to the front as the largest copper-producing and exporting country in the world.

The ores of copper are found in larger or smaller quantities in most of the States of the Union. The first mine opened in the country was the Simsbury, near Granby, Conn., in mine, near Bellaville, N. J., was discovered, and, with a number of others in its vicinity, successfully worked for years. The first mine opened in Pennsylvania was the Gap mone, in Lancaster, in which work was commenced good reading stories, fashion notes, and in 1832. Since then the apparently pays intelligent attention to the House | mexhaustible mines of the Lake Suand Farm. Splendid premiums with the perior district, in Michigan, have been opened up; rich mines have been found in Arizona; a series of wide veins of copper, mixed with silver, Send portal card request for free sam- also produced copper at profitable

The character of the copper ores differs greatly, according to the localities in which they are found. In "mass" mines the copper is in the form of pure metal, varying in size from a few pounds to hundreds of tons. Such mines are, as a rule, soon worked out, The most prominent in former years were the Cliff, Minnesota and National mines, in the Lake Superior district. be sent to any address thirteen weeks The bulk of native copper is, however, on trial for 25 cents. Splendid premi- found distributed in fine grains, mixed up with iron ore in two classes of mining, when the whole resources of rock, talled conglomerate and amyg- the principality come under divel-San Prancisco, Cal. aloid. The ore, after being raised opment, it is as yet impossible to confrom the mine, is crushed into small jecture; but the mine now in operar' es by huge stamping machines, est in the world, and there are fifty lady is ahead. after which the copper is melted out other sites in Wales alone where there in an ordinary furnace. The ore is is reason to believe that gold will be found in its greatest abundance in the found in large quantities. Lake Superior district. Next to na- In several places in Daketz the artive copper in simplicity of reduction tesian wells of 900 to 1050 feet show appeared, and it will be another then 10 per cent, over recent prices. from that ore is the carbonates and pressure of 259 to 325 pounds. As sand years hence ere it will octun oxides of copper. These vary in ap- there are no elevations within hun- again. What has been the progress oxides of copper. These vary in ap-dreds of miles to correspond to this, will the g-ologists, gasologists, or seiz-

malachite, is a carbonate of copper. This ore is easily fused in a cupola The finest copper mine in the world furnace by using lime as a flux. Its is the Calumet and Hecla in Michi- beadquarters in the United States is

opper, or more than a third of the is known as copper pyrites. This ore

Gold Mines in Wales.

[From a Letter to the London Times.] I write in accordance with the wishblend and other formations in North circulation. Wales. Having taken all possible precautions to avert a premature disclosure of the facts, Mr. Morgan has been enabled to open out various lodes in obtained. He preferred to withhold I cent. below the quotations.

In former times gold has been On the grass he has already stacked present extent of the boom.

about 2500 tons ready for treatment a great part of which has been estimated to yield 6 ounces to the ton. A few pennyweights of gold per ton reward the operations of gold mining to the satisfaction of many existing companies in the colonies. From stone already tested, the lowest calculations point to an average all round of 2 ounces to the ton. What may be the ultimate annual yield of Welsh gold tion is, without doubt, one of the rich-

used for ornamental purposes, called the pressure? Is it confined gas?

A Wall Street Administration

lerrelo ralaterari

From Senator Plum's Spec h.] Mr. President, the trouble with this Administration is that it has had no eves for anything in a financial way except where it related to the banking and speculative interests of New York City. It has not taken into account that all this long summer there has It was not until there was a dearth of der which he was warming. money in New York City for the carrying of stocks and for speculative purposes that money has been paid out. When the New York banks were lacking in funds the Treasury Department had no doubt about the legality of the law authorizing the purchase of bonds, and some \$17,000,000 of bonds were purchased. Whenever the same condition of things again exists there will be no further doubts about the binding force of the law, and otherbonds will be bought to relieve the stringency. Meanwhile the country man. at large can suffer for the lack of money to properly transact business, while the President pleads his doubt about the law for not doing what was so promptly done to relieve stringency at New York.

The President says such a discretion as this lat commits to him ought not to be intrusted to an executive officer, but he has already exercised it in the case mentioned, and it is one which must necessarily be committed to the Executive, as it has been from the beginning of the Government with reference to public debt in this country It will not do to say that some executive officer might abuse his discretion-There is the law. It should be obeyed. The President won't claim that he is afraid he will not properly administer it. He is willing enough to have the responsibility when that responsibility is in the line of what seems to be-I will not say his owfi interest, but the interest of the comresolution. When there was trouble, even be discussed by them. or hability to trouble, in Wall street, there was no question then about the ut you in possession of the real facts bursements made; and so \$140,000,000

A New York Tleir of Copper. [N. Y. Engineering & Mining Journal.] the Mawddach Valley, near Dolgel- quite willing to supply manufacturers y besides carrying out systematic ex- at prices considerably below those plorations elsewhere, without making quoted on the Metal Exchange. Cast-

the declaration of his convictions as As might have been expected, vig- of land in the Territories and District to what he would be able to produce orous efforts are being made to in- of Columbia, by striking out the resountil bars of gold from the Welsh crease production, and we learn that lution as to the District of Columbia. mines would give practical demon- the Boston & Montana Copper Com- It is found that the act, as it stands, strations of their value. But as some pany has commenced mining high-creates unforseen embarrassments in flickering rumors of a ludicrously im- grade ore (running 30 per cent. to 35 regard to the property of the foreign leperfect character have made their apper cent, copper), which it will ship to gations here. The amendment should pearance in the papers within the last other smelters, and is likely to consid- also exempt the ownership of mines few days, Mr. Morgan considers that erably increase its own smelting capa- from the operation of the act .- N. Y. it is better, under the circumstances, city at an early date. This company Engineering and Mining Journal. to throw off all reserve as to the true is understood to have contracted for a character of his undertaking without large part of its next year's production to European refiners.

washed from the beds of rivers in market is very strong both in this limits of the Texas Pacific Railway Wafes, but until new no systematic country and Europe, there is a very grant between E! Paso and San Diego. efforts have been made to penetrate decided impression that prices can not It declares for the minimum price of the deeper-seated deposits in the long remain where they are, though it public lands, and also authorizes the quartz. In the Mawddach Valley, is not expected that Chili bars will, refunding of all sums in excess of \$1 however, Mr. Morgan has had about for a considerable period, go below 25 per acre paid by settlers on these 100 men at work for several months, £65, whatever other brands may do. lands, because of their being within

and has now, as the phrase goes, The corner in Europe is apparently the limits of the grant. Southwestern "stripped the lode," so that many a strong one and can put prices where Steckman. thousands of tons of stones, richly they will, but manufacturers here buy laden with gold, are ready to be direct from the producers, who are almost without exception opposed to the ing Record says: St. Louis is rapidly

She is Ahead.

(From the Peoria Transcript.) A year ago yesterday a Peoria lady, who was something of a talker, looked in her stocking to see what Santa Chus had brought her. Her husband had promised her an appropriate present. In it she found a smoked tongue with a string tied around it. This year it was her turn to get her hus- heavy duty on the exportation of ores. band a present of something be need- Recently a powerful English company ed. When he awakened yesterday bought and took possession of the San morning he found his socks filled with Felipe reduction works near Chibuachloride of lime. Just at present the bua. This company is working hard

We shall write three 8's in our datelines for a twelvementh. It is a thoufor contemplation !- Scientific Press. priate appointment,

TERRITORIAL TOPICS. Condensed from Our Exchanges for "Silver Belt" Readers.

The Florence Enterprise learns that Gen. W. E. Hobson is arranging to sink an artesian well at Casa Grande and will have a town laid out there.

Rosario Montolla, a Mexican, embeen a lack of money necessary for the ployed at the Longfellow Copper mine, proper carrying on of business all over Clifton, had both hands blown off by the Western and Southern country. the explosion of a stick of giant pow-

J. M. Jones, the San Francisco cattle buyer, shipped a train load-525 head-of beef cattle from here on Wednesday (28th ult.) to California. Part of the cattle went direct to the San Francisco market, the balance to Sumner, Kern county. Mr. Jonespurchased 425 head of these cattle from Thomas Steele, and 100 head from T. T. Hunter. The steers purchased from Mr. Hunter were as fine a lot of beeves as were ever shipped from Wilcox.-Southwestern Stock-

Scattment in the Cutting Case.

(Dispatch to the Globe-Democrat.) In speaking of a possible resurrection of the Cutting matter during the present session of Congress at Washngton, a prominent official at Paso del Norte says that the Mexican Government does not look for any such reopening, but if against their expectations Secretary Bayard should persist in keeping the matter open, the Mexican authorities are prepared to lay, before the Government of the United States such an array of facts and such a clear exposition of the whole ambioglio that any fair-minded tribunal would be at once convinced of the correctness assumed by Mexico. All the documents and proof in the case, with many additional facts, have been carefully collected and arranged so that they can be made use of at a moment's notice. The possibility of even one cent's worth of indemnity to Cutting pany that he seeks, as shown by his has never been entertained by the pocket veto of the Morrison surplus Mexican Government and will not

Train telegraphy is one of the conexercise of Executive discretion in the veniences that will at an early day be disposal of nineteen or twenty mil- placed at the service of the traveling lions in the purchase of bonds; but the public. The success of the process is es of my client, Mr. William Pritch- moment the stricture there was the now beyond question. The sending may keep this price up for some time, and Morgan, of Brynticion, Dolgelly, moved there was no further exercise and receiving of messages in a car and Queen Victoria street, London, to of that discretion and no further disexpress trains in America is easily acconcerning his discovery of gold in of the people's money beyond all Treas- complished with as great accuracy, as enormous quantities in the quartz and ury needs is hoarded and kept out of if sent from the regular telegraph offices. Business men of all kinds will esteem this a great convenience, and will choose the route having the advantage of train telegraphy when pos-It is well known that producers are sible. This present luxury will soon

> The Senate Foreign Affairs Comknown until now the results he has ing brands are obtainable at from 1 to mittee has reported in fayor of amending the act to forbid alien ownership

> > Senator Teller, in the interest of the settler, has introduced a bill to regu-While the statistical position of the late the price of public land within the

> > > The New York Financial and Minabsorbing the mining stock business, because our large listing-fee has preyented the early listing of the stock in meritorious young companies The dividends now being paid in St. Louis by mining companies are reported to exceed those of all their banks, insurance companies and railway companies combined.

> > > It is stated that there is probability of Mexico passing a law placing a to secure the adoption of the measure.

The Detroit Copper Company of Clifton, has restored the wages paid sand years since the combination last prior to January 1885-an advance of

Senator Stewart, of Nevada, is in the last period? What will be the Chuirman of the Senate committee or beautiful green mottled stone, often mologists please tell us what causes progress in the next? Here is a field mines and mining. A very approxi-